



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,800	11/14/2003	Yukiyoshi Sunada	CH2893	4196
23906	7590	05/31/2007	EXAMINER	
E I DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE WILMINGTON, DE 19805			MIGGINS, MICHAEL C	
			ART UNIT	PAPER NUMBER
			1772	
			MAIL DATE	DELIVERY MODE
			05/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/713,800	SUNADA ET AL.	
	Examiner Michael C. Miggins	Art Unit 1772	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 28 February 2007.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1,3,4 and 7-16 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1, 3-4, 7-16 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/28/07 has been entered.

REJECTIONS WITHDRAWN

2. There are no rejections withdrawn.

REJECTIONS REPEATED

3. The 103(a) rejections set forth in the final rejection of 11/3/06, pages 2-4, paragraphs 3-4 are repeated for the reasons of record. Applicant has added the limitation of a nozzle to claim 1. This limitation is disclosed in Diaz (column 1, lines 28-65).

NEW REJECTIONS

4. There are no new rejections.

ANSWERS TO APPLICANT'S ARGUMENTS

Art Unit: 1772

5. Applicant's arguments of 2/28/07 have been carefully considered but are deemed unpersuasive.

Applicant has argued that the properties of heat resistance and water repellency do not ensure that the coating would be durable and not hinder performance for a nozzle used in a printer for ejecting ink. However, such properties are obtained upon the combination of Diaz and Iwato since Diaz discloses a nozzle comprising fluorocarbon silane and Iwato discloses applicant's exact coating. Furthermore, Diaz discloses that fluorocarbon films have excellent wear resistance (column 1, lines 50-55)

Applicant has argued that there is no motivation to combine Diaz and Iwato. However, heat resistance and water repellency are desirable properties for printing and applicant has not shown that heat resistance and water repellency are not desirable properties for printing. Applicant uses the claimed coating for alkaline and abrasive resistance.

In response to applicant's argument that the purpose of applicant's coating is for alkaline and abrasive resistance, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).

Applicant asserts unexpected results. However, applicant has provided no clear and convincing evidence comparing the instant invention to that of Diaz or, more importantly, Iwato. Especially since Iwato discloses applicant's exact coating.

With regard to Albinson, Griffen and Nakagawa none of the references were used in the rejection and none of the references discuss or disclose the specific coating of Iwato.

Applicant has argued that Iwato does not disclose a coated conduit. However, the coated conduit is disclosed by Diaz and the references are analogous because both disclose fluorosilane coatings and applicant cited both references as being related to the instant invention.

Applicant has argued that the coatings of Diaz are not chemically very similar to what is claimed by applicant. However, Iwato discloses applicant's exact silane fluorocarbon coating and Diaz discloses that coating of a nozzle with silane fluorocarbons is known.

Applicant has argued that the process coating in Diaz is different from that of applicant. However, the method of coating is not germane to the patentability of a product in a product claim.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Miggins whose telephone number is 571-272-1494. The examiner can normally be reached on 1:00-10:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Y. Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael C. Miggins
Primary Examiner
Art Unit 1772



MCM
May 29, 2007